

State of Louisiana
Department of Transportation and Development (DOTD)
Materials and Testing Section Qualification Procedure

EPOXY RESIN SYSTEMS FOR CONCRETE

MATERIAL SPECIFICATION REFERENCE:

DOTD Standard Specifications, Supplemental Specifications and Special Provisions, Section 1017.

PRELIMINARY REQUIREMENTS:

**AASHTO National Transportation Products Evaluation Program (NTPEP)
Product Evaluation Form**

The manufacturer shall submit a standard "AASHTO National Transportation Products Evaluation Program (NTPEP) Product Evaluation Form" to the AASHTO NTPEP Coordinator. Copies are available from the NTPEP Coordinator (address listed below). The manufacturer will be contacted by the Coordinator regarding the submission of samples.

The address of the contact affiliated with AASHTO NTPEP is:

NTPEP Coordinator
AASHTO National Transportation Products Evaluation Program
444 N. Capitol St. N.W.
Suite 249
Washington, D.C. 20001
Phone: (202) 624-3695
Fax: (202) 624-5806
<http://data.ntpep.org>

Louisiana DOTD Approved Materials Evaluation Form

Prior to submitting a "Approved Materials Evaluation Form" to the Materials and Testing Section, the manufacturer shall have successfully completed the requirements of AASHTO NTPEP Evaluation of Epoxy and Resin Based Adhesive Bonding Systems. Laboratory results obtained by the AASHTO NTPEP will be used to determine conformance to DOTD Standard Specification.

The manufacturer shall submit a standard "Approved Materials Evaluation Form" to the DOTD Materials and Testing Section Coordinator listed below, along with a letter requesting evaluation for the Approved Materials List. The Approved Materials Evaluation Form can be viewed or downloaded at:

http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/Materials_Lab/Pages/QP_Eval_Form.aspx

Product Data Sheets

Include product data sheets to provide all pertinent information relative to the product to be evaluated; including, but not limited to, manufacturer's specifications, mixing instructions, intended use of product, typical analysis and Material Safety Data Sheet (MSDS).

Certification and/or Test Reports

The manufacturer shall provide a notarized certificate of analysis by an independent laboratory showing the required physical and chemical properties for all epoxy systems in accordance with DOTD Standard Specifications.

Sample (to be furnished at no cost to the Department)

Submit a sufficient amount of each component to insure a minimum of 8 Liters (2 gallons) of mixed epoxy at the recommended mixing ratio of components A and B. The sample shall include a sufficient amount of aggregate (component C) for Type III systems intended for use with the manufacturer's recommended aggregate. Additional material may be required for a field evaluation.

Test Requirements:

1. Laboratory Testing
The qualification sample will be tested for the types, grades and classes in accordance with the applicable test procedures as shown in the attached Section 1017. The gel time may be determined by the use of an automatic gel timer.
2. Field Evaluation
The Department may require a field evaluation to ensure satisfactory installation and performance of the product prior to placement on the Qualified Product List. The compatibility of the product in reference to bonding of materials for a period of time will be a factor in acceptance of the product.
3. Evaluation Time
Laboratory testing - 8 weeks
Field Evaluation - 16 weeks

GENERAL:

Upon completion of the evaluation, the submitter will be notified in writing concerning the results of the evaluation and whether the product will or will not be added to the Approved Materials List. The Department reserves the right to reevaluate any product at any time.

PROJECT ACCEPTANCE REQUIREMENTS:

Qualification of a product is not blanket approval for its use. Epoxy sent to a project will be sampled in accordance with the Department's Materials Sampling Manual. Final acceptance of each lot or shipment is dependent upon test results which shall conform to the established specification requirements and which identify the sample as being representative of the product originally approved.

All Epoxy Resin Adhesive for bonding traffic markers, regardless of prior approval, shall be sampled in accordance with the Materials Sampling Manual. See DOTD Designation: S606 (attached) for details. Sampling for acceptance may be performed at the markers Applicator's warehouse or other storage facility. When presampled in this manner, each DOTD lot of adhesive shipped to the jobsite shall be accompanied with a Certificate of Compliance (attached). This Certificate of Compliance shall include the test report number which indicates conformance to specifications and represents the material shipped.

When Epoxy Resin Adhesive for bonding traffic markers has not been presampled at the Marker Applicator's warehouse or other storage facility, the Project Engineer shall notify the District Laboratory to take samples at the project site in accordance with DOTD S 606.

DISQUALIFICATION:

Any product may be removed from the Approved Materials List for non-conformance with specifications and/or unsatisfactory field performance. The Department must be notified in writing of any name change or change in product formulation. Significant changes may require reevaluation of the product.

REQUALIFICATION:

A product which has been disqualified and removed from the Approved Materials List will be considered for reevaluation only after submission of a formal request along with acceptable evidence that the problems causing removal have been resolved.

DOTD MATERIALS AND TESTING SECTION COORDINATOR

Khiet Ngo, P.E.
Physical Test Engineer
DOTD Materials and Testing Section
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Baton Rouge, La. 70806
(225) 248-4134
Khiet.Ngo@la.gov

Approved 02-5-15

A handwritten signature in black ink, appearing to read 'Chris Abadie', with a long horizontal line extending from the end of the signature.

CHRIS ABADIE, P.E.
MATERIALS ENGINEER ADMINISTRATOR